**Name:**

# while Loops

# Find the output to the following code segments. If an infinite loop exists, give the output for the first five iterations and write "infinite loop."

|  |  |
| --- | --- |
| double num = 24.0;while (num <= 32){System.out.print(num + " ");num += 1.25;} |  |
| int m = 30, n = 80;while ((m < 200) && (n > 20)){System.out.println(m + " and " + n);m += 15;n -= 10;} |  |
| int w = 15, x = 85, z = 25;while ((w < 19) && (z > 2)){z = x/w;x--;w++;System.out.print("Run: " + w + " ");System.out.print("Bike " + x + " ");System.out.println("Skip: " + z);} |  |
| int b = 24, c = 12;while (b != c){System.out.println("b is " + b + " and c is " + c);b++;c += 6;}System.out.println("b is " + b + " and c is " + c); |  |
| int bank = 3000;int car = 4000;int hours = 0;while (bank < car){hours++;bank += 12;}System.out.println("You worked " + hours + " hours to buyyour car!"); |  |

**Name:**

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| int m = 30, n = 80;while ((m < 200) && (n > 20)){System.out.println(m + " and " + n);m += 15;n -= 10;} |  |
| int w = 15, x = 85, z = 25;while ((w < 19) && (z > 2)){z = x/w;x--;w++;System.out.print("Let's run " + w + " miles, ");System.out.print("bike " + x + " miles, ");System.out.println("and skip " + z + " miles.");} |  |
| int b = 24, c = 12;while (b != c){System.out.println("b is " + b + " and c is " + c);b++;c += 6;}System.out.println("b is " + b + " and c is " + c); |  |
| int bank = 3000;int car = 4000;int hours = 0;while (bank < car){hours++;bank += 12;}System.out.println("You worked " + hours + " hours to buyyour car!"); |  |